



Parallel Session A: Information System and Internet of Things

Location: Tyche Room

| No | Time | ID Paper | Title | Author | Presenter |
|----|---------------|------------|--|---|-------------|
| 1 | 12.30 - 12.45 | 1570481327 | Utilization of Data Mining Classification Technique for Civil Servant Mutation Pattern: A Case Study of Pangkajene and Kepulauan District Government | Mansyur M. (Universitas Indonesia, Indonesia); Indra Budi (Computer Science, Indonesia); Yova Ruldeviyani (Universitas Indonesia, Indonesia) | Mansyur M. |
| 2 | 12.45 - 13.00 | 1570479849 | Low Cost Heart Rate Portable Device for Patients at Risk with Alert System and IoT Based | Muhammad Irmansyah (Politeknik Negeri Padang, Indonesia); Era Madona (Polytechnic State of Padang, Indonesia); Anggara Nasution (Politeknik Negeri Padang, Indonesia); Roni Putra (Andalas University, Indonesia) | Era Madona |
| 3 | 13.00 - 13.15 | 1570469729 | Developing multiple nested schema to reduce data redundancy in CONOSQLDB schema | Sutedi Sutedi (Universitas Gadjah Mada & Institut Informatika dan Bisnis Darmajaya, Indonesia); Teguh Bharata Adji (Gadjah Mada University, Indonesia); Noor Akhmad Setiawan (Universitas Gadjah Mada, Indonesia) | Sutedi |
| 4 | 13.15 - 13.30 | 1570471118 | NRF: Normalized Rating Frequency for Collaborative Filtering | Sri Lestari (University Gadjah Mada, Indonesia); Teguh Bharata Adji (Gadjah Mada University, Indonesia); Adhistya Erna Permanasari (Universitas Gadjah Mada, Indonesia) | Sri Lestari |



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|----|---------------|------------|---|---|------------------------|
| 5 | 13.30 - 13.45 | 1570471463 | The Impact of Perceived Usefulness and Perceived Ease of Use on Student's Performance in Mandatory E-Learning Use | Mahendra Adhi Nugroho, Patriani Wahyu Dewanti and Budi Tiara Novitasari (Universitas Negeri Yogyakarta, Indonesia) | Patriani Wahyu Dewanti |
| 6 | 13.45 - 14.00 | 1570481325 | Implementation of Secure Hash Algorithm - 3 for Biometric Fingerprint Access Control Based on Arduino Mega 2560 | Indrian Alfiansyah (National Crypto Institute Indonesia Sekolah Tinggi Sandi Negara, Indonesia) | Indrian Alfiansyah |
| 7 | 14.00 - 14.15 | 1570476283 | Open Data of Indonesian Tourism Based on Android | Hidra Amnur (Politeknik Negeri Padang, Indonesia) | Hidra Amnur |
| 8 | 14.15 - 14.30 | 1570481303 | Selection of Prospective Employees Using Analytical Hierarchy Process (AHP) and ISO 9126 | Mujito Mujito, Basuki Prasetyo, Subandi Subandi, Dian Anubhakti and Ady Widjaja (Universitas Budi Luhur, Indonesia) | Mujito |
| 9 | 14.30 - 14.45 | 1570481326 | Analysis And Design E-Arsip Based On Kano And Object Oriented | Dian Anubhakti, Bima Putra, Noni Juliasari and Subandi Subandi (Universitas Budi Luhur, Indonesia) | Dian Anubhakti |
| 10 | 14.45 - 15.00 | 1570480708 | Privacy Control for Personally Identifiable Information on the Information System (Case Study: XYZ Organization) | Fajar Pradana and Nanang Trianto (Sekolah Tinggi Sandi Negara, Indonesia) | Fajar Yoga Pradana |
| 11 | 15.00 - 15.15 | 1570481214 | Comparative Analysis of Multi-Criteria Decision Making for Student Degree Completion Time based on Entropy Weighted | Masna Wati and Niken Novirasari (Universitas Mulawarman, Indonesia) | Masna Wati |
| 12 | 15.15 - 15.30 | 1570481251 | Comparison of Trivium and Random Number Generator Arduino for Challenge Value in Color Combo Authentication Scheme on Arduino | Nabella Permatasari, Mohamad Fauzi and Rini Wardhani (National Crypto Institute, Indonesia) | Nabella Permatasari |



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|----|---------------|------------|---|--|-------------------|
| 13 | 15.30 - 15.45 | 1570481359 | Public Sentiment on Political Campaign Using Twitter Data in 2017 Jakarta's Governor Election | Indra Budi (Faculty of Computer Science Universitas Indonesia); Mardeni Mihardi (University of Indonesia, Indonesia) | Indra Budi |
| 14 | 15.45 - 16.00 | 1570481389 | Waste Waiting Minimization in Production Process Using Lean Manufacturing Approach | Dhea Amalia and Agus Yanuar (University of Telkom, Indonesia); Meldi Rendra (Telkom University, Indonesia) | Dhea Nadya Amalia |
| 15 | 16.00 - 16.15 | 1570481391 | Enterprise Based Review on PPK BLU | Raden Trimanadi (Esa Unggul University, Indonesia) | Raden Trimanadi |
| 16 | 16.15 - 16.30 | 1570481403 | Efficiency Analysis of Optimal Portfolio Selection for Stocks in LQ45 Index | Dodi Devianto (Andalas University, Indonesia) | Dodi Devianto |
| 17 | 16.30 - 16.45 | 1570481434 | Nonlinear Modeling of IHSG with Artificial Intelligence | Mutia Yollanda, Dodi Devianto and Hazmira Yozza (Andalas University, Indonesia) | Mutia Yollanda |
| 18 | 16.45 - 17.00 | 1570485387 | Query Expansion Evaluation for Chatbot Application | Faisal Rahutomo and Laila Hidayatin (State Polytechnic of Malang, Indonesia) | Faisal Rahutomo |
| 19 | 17.00 - 17.15 | 1570485723 | Classification Analysis Of MotoGP Comments On Media Social Twitter Using Algorithm Support Vector Machine And Naive Bayes | Siswanto Tohari (University of Budi Luhur & Ikatan Ahli Informatika Indonesia (IAII), Indonesia); Yuda Wibawa (STMIK Nusa Mandiri Jakarta, Indonesia); Windu Gata (Post Graduate STMIK Nusa Mandiri, Indonesia); Grace Gata (Faculty of Information Technology Budi Luhur University Jakarta, Indonesia); Nia Kusumawardhani (Faculty of | Siswanto Tohari |



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| | | | | Computer Science Mercu Buana University, Indonesia) | |
| 20 | 17.15 - 17.30 | 1570488678 | Implementation of COBIT 5 Framework for Academic Information System Audit at STIKOM Dinamika Bangsa Jambi (Perpestive: Evaluate, Direct, and Monitor) | Dina Fitria Murad, Erick Fernando, Raymondus Raymond Kosala, Benny Ranti, and Suhono Harso Supangkat (Bina Nusantara University, Indonesia) Muhamad Irsan (Universitas Islam Syekh Yusup (UNIS), Indonesia) | Dina Fitria Murad |
| 21 | 17.30 - 17.45 | 1570485937 | On the Clustering of Islamic Rural Banks Based on Financial Performance | Muhammad Fajri Nazar, Dodi Devianto, Hazmira Yozza and Maiyastri Maiyastri (Andalas University, Indonesia) | Muhammad Fajri Nazar |



Parallel Session B: ICT, Security and Artificial Intelligents

Location: Minerva Room

| No | Time | ID Paper | Title | Author | Presenter |
|----|---------------|------------|--|--|-------------------------|
| 1 | 12.30 - 12.45 | 1570481362 | Deep Learning-Based Implementation of Hate Speech Identification on Texts in Indonesian: Preliminary Study | Erryan Sazany (Universitas Indonesia, Indonesia); Indra Budi (Computer Science, Indonesia) | Erryan Sazany |
| 2 | 12.45 - 13.00 | 1570481954 | Image Tiling Using Columnar Transposition | Rihartanto Rihartanto and Didi Susilo Budi Utomo (State Polytechnic of Samarinda, Indonesia) | Rihartono |
| 3 | 13.00 - 13.15 | 1570482166 | Tactical Troops Tracking Systems Topology through LoRaWAN Communications | Wimol San-Um (Thai-Nichi Institute of Technology, Thailand); Pansathorn Lekbunyasini (Intelligent Electronics Research Laboratory, Thailand) | Pansathorn Lekbunyasini |
| 4 | 13.15 - 13.30 | 1570482618 | Hierarchical Clustering Linkage for Region Merging in Interactive Image Segmentation on Dental Cone Beam Computed Tomography | Agus Z Arifin, Maryamah Maryamah, Dini Navastara and Siska Arifiani (Institut Teknologi Sepuluh Nopember, Indonesia); Arna Fariza (Politeknik Elektronika Negeri Surabaya, Indonesia); Rarasmaya Indraswari (Institut Teknologi Sepuluh Nopember, Indonesia) | Maryamah |



| No | Time | ID Paper | Title | Author | Presenter |
|----|---------------|------------|--|---|---------------|
| 5 | 13.30 - 13.45 | 1570483064 | Prediction the Price of National Groceries Using Average Based Fuzzy Time Series With Song - Chissom and Markov Chain Approach | Abdul Aziz and Khoirun Istikhomah (Universitas Sebelas Maret, Indonesia); Sarngadi Palgunadi (Sebelas Maret University, Indonesia) | Abdul Aziz |
| 6 | 13.45 - 14.00 | 1570485536 | Enhance Wireless Security System Using Butterfly Network Coding Algorithm | Chih-Min Wang and Yu-Fan Kung (National Kaohsiung University of Science and Technology, Taiwan); Hendrick Hendrick (National Kaohsiung University of Applied Sciences, Indonesia); Aripriharta Aripriharta (Universitas Negeri Malang, Indonesia); Po-Jen Cheng (National Kaohsiung University of Science and Technology, Taiwan); Gwo-Jia Jong (National Kaohsiung University of Applied Sciences, Taiwan) | Hendrick |
| 7 | 14.00 - 14.15 | 1570485687 | Solving Decent Home Distribution Problem Using ELECTRE Method with Triangular Fuzzy Number | Irvanizam Irvanizam, Nazaruddin Nazaruddin and Intan Syahrini (Syiah Kuala University, Indonesia) | Irvanizam |
| 8 | 14.15 - 14.30 | 1570485819 | Clustering Arrythmia Multiclass using Fuzzy Robust Kernel C-Means (FRKCM) | Nedya Shandri (Universitas Indonesia, Indonesia); Zuherman Rustam (University of Indonesia, Indonesia) | Nedya Shandri |



| No | Time | ID Paper | Title | Author | Presenter |
|----|---------------|------------|--|--|------------------------|
| 9 | 14.30 - 14.45 | 1570485840 | Cervical Cancer Risk Classification Based on Deep Convolutional Neural Network | Durrabida Zahras (Universitas Indonesia & Faculty of Mathematics and Natural Sciences, Indonesia); Zuherman Rustam (University of Indonesia, Indonesia) | Durrabida Zahras |
| 10 | 14.45 - 15.00 | 1570485842 | Design of Mirror Therapy Technique to Rehabilitate Upper Limb After Stroke Using Non-Immersive Virtual Reality | I Putu Lesmana (State Polytechnic of Jember, Indonesia) | I Putu Dody Lesmana |
| 11 | 15.00 - 15.15 | 1570485916 | Comparison between Fuzzy Kernel C-Means and Sparse Learning Fuzzy C-Means for Breast Cancer Clustering | Ajeng Leudityara Fijri (Universitas Indonesia, Indonesia); Zuherman Rustam (University of Indonesia, Indonesia) | Ajeng Leudityara Fijri |
| 12 | 15.15 - 15.30 | 1570485942 | The halal logo classification by using NVIDIA DIGITS | Chih-Min Wang (National Kaohsiung University of Science and Technology, Taiwan); Hendrick Hendrick (National Kaohsiung University of Applied Sciences, Indonesia); Aripriharta Aripriharta (Universitas Negeri Malang, Indonesia); Ciou-Guo Jhe and Ping-Cheng Tsu (National Kaohsiung University of Science and Technology, Taiwan) | Hendrick |



| No | Time | ID Paper | Title | Author | Presenter |
|----|---------------|------------|---|--|----------------|
| 13 | 15.30 - 15.45 | 1570485947 | Optimization of Compact UWB Monopole Antenna with Tapered Connection and Linier Tapered Transformer | Firdaus Firdaus (Politeknik Negeri Padang, Indonesia); Meza Silvana (Universitas Andalas, Indonesia); Yulindon Yulindon (Politeknik Negeri Padang, Indonesia); Noor Azah Samsudin (Universiti Tun Hussein Onn Malaysia, Malaysia); Riswan Efendi (Faculty of Science and Technology & State Islamic Sultan Syarif Kasim Riau, Indonesia) | Firdaus |
| 14 | 15.45 - 16.00 | 1570486096 | Assessing Risk Prediction of Cervical Cancer in Mobile Personal Health Records (mPHR) | Tessy Badriyah (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Iwan Syarif (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia) | Tessy Badriyah |
| 15 | 16.00 - 16.15 | 1570471872 | Low Complexity Hybrid Beamforming for 28 GHz Multi-Receiver (MIMO) System | Mohammed Rabee and Zainab Hablumateen (Harbin Institute of Technology, Canada) | Mohammed Rabee |
| 16 | 16.15 - 16.30 | 1570472030 | Comparison of Three Topologies Rotor to Improve Efficiency and Torque for High-Speed Spindle Motor Applications | Wawan Purwanto, WP (Universitas Negeri Padang & UNP, Indonesia) | Wawan Purwanto |
| 17 | 16.30 - 16.45 | 1570473217 | A Review of the Teaching and Learning on Power Electronics Course | Krismadinata Krismadinata (Universitas Negeri Padang Indonesia, Indonesia); Kasman Rukun (State University of | Krismadinata |



| No | Time | ID Paper | Title | Author | Presenter |
|----|---------------|------------|---|--|---------------------|
| | | | | Padang, Indonesia); Yahfizham Yahfizham (Universitas Islam Negeri SU Medan, Indonesia) | |
| 18 | 16.45 - 17.00 | 1570473956 | Regulatory Framework Analysis of Infrastructure Sharing for Mobile Operators in Indonesia Using Regulatory Impact Analysis Approach | Burhanudin Burhanudin (Universitas Indonesia, Indonesia); Muhamad Asvial (Universitas Indonesia, Indonesia) | Burhanudin |
| 19 | 17.00 - 17.15 | 1570479677 | Graph Steganography Based On Multimedia Cover To Improve Security and Capacity | Ilham Firman Ashari (Institut Teknologi Bandung (Itb), Indonesia); Rinaldi Munir (Institut Teknologi Bandung, Indonesia) | Ilham Firman Ashari |
| 20 | 17.15 - 17.30 | 1570481202 | Effectiveness Of Android-Based Mobile Robots For Children Asperger Syndrome | Anip Febtriko (Universitas Abdurrab Pekanbaru, Indonesia) | Anip Febtriko |
| 21 | 17.30 - 17.45 | 1570481282 | Logistic Regression Analysis with Bootstrap on Determining Factors Affecting Patient Satisfaction Level on Health Services | Muhammad Ridho, Dodi Devianto, Hazmira Yozza, Ferra Yanuar and Izzati Rahmi HG (Andalas University, Indonesia) | Muhammad Ridho |
| 22 | 17.45 - 18.00 | 1570481184 | Time Series of Rainfall Model with Markov Switching Autoregressive | Dodi Devianto (Andalas University, Indonesia) | Muhammad Ridho |